



Custom **Model Generation & Colony Management** Solutions

Delivering the complete solution through integrated, end-to-end services

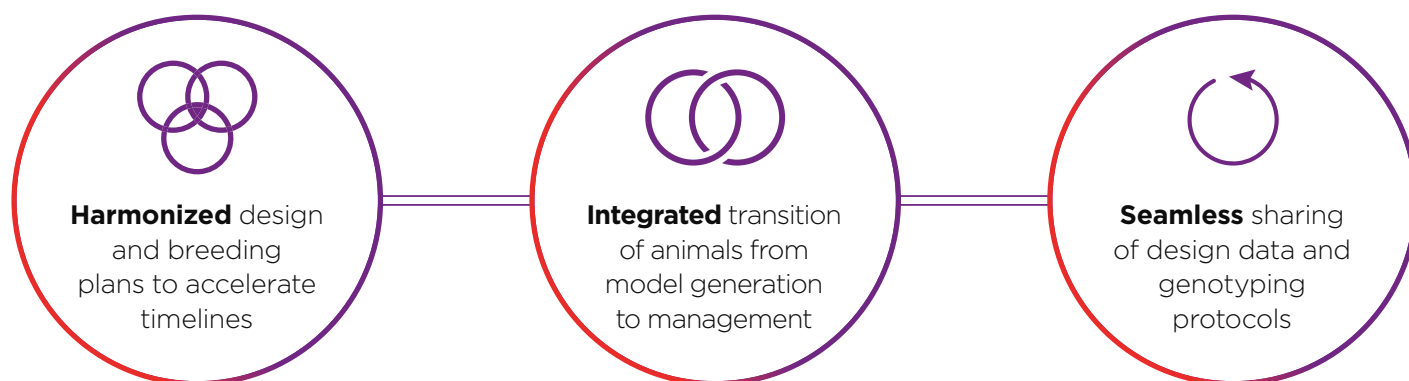
Taconic's Custom Model Generation and Colony Management Solutions is the only integrated service in the industry to provide the ease, speed, and continuity of a one-stop shop. This end-to-end platform gives the customer access to seamless, hands-free transition of their model from the generation phase to the management phase, accelerating the timeline of model generation and validation to scaled production and distribution.

Custom Model Generation & Colony Management Solutions

When signing on with Taconic as a partner, the customer can leverage industry-leading model generation and colony management solutions, without having to compromise on either one. Taconic aims to achieve a service level in the generation and management of genetically engineered models that provides customers with confidence in their supply of the right model, in the right specifications, at the right time, allowing the customer to focus more on their research and supporting responsibilities.

EXPERIENCE

- ▶ First-ever commercial provider to offer colony management services
- ▶ > 25 years and > 6,000 genetically engineered models
- ▶ Transformed the industry with introduction of dedicated Scientific Program & Project Management functions



CUSTOM MODEL GENERATION SOLUTIONS

PRECISE, TRANSLATABLE, GENETICALLY-ENGINEERED ANIMAL MODELS FOR PRECLINICAL RESEARCH AND DRUG DISCOVERY

EXPERIENCE	TOOLBOX	QUALITY	FLEXIBILITY
▶ 20 years & > 4,500 unique models designed and generated ▶ Scientific Program Management and Strategy Design Team of PhD scientists with > 50 years combined experience ▶ Strongest track record in the industry with pharma, biotech, and academia	▶ “Humanization” via targeted genomic replacement of ~250kb ▶ CRISPR-mediated knockout and knock-in models ▶ Conditional targeted knockout and knock-in models ▶ Targeted and random integration transgenic models	▶ Complete sequencing of targeting constructs ▶ Southern blot confirmation of ES cell clones with radiolabeled probes, multiple digests, and 5'/3' probes ▶ Detailed, accurate, and realistic timelines ▶ ExpressMODEL® product accelerates timelines and conversion to colony management	▶ Multiple background strains available, including existing genetically modified models ▶ Custom start-up packages that reduce time and mitigate risk due to changing priorities or budgets ▶ Project milestones provide logical stopping points during project

COLONY MANAGEMENT SOLUTIONS

EXPERT PLANNING AND AGILE PROJECT MANAGEMENT BRING CONFIDENCE IN THE SUPPLY OF STUDY ANIMALS

TOOLBOX

- ▶ Access to both direct-import or post-rederivation vivaria to fit each stage of a project plan
- ▶ Full-service embryology operations for accelerated timelines via Rapid and FRapid® expansion
- ▶ Comprehensive genotyping and molecular analysis services for accurate data and reliable turnaround

QUALITY

- ▶ 5 different International Health Monitoring System™ (IHMS™) testing programs
- ▶ All facilities are AAALAC accredited
- ▶ Genotyping data reviewed by PhD geneticists
- ▶ Dedicated support teams in genetics, veterinary sciences, and quality assurance

FLEXIBILITY

- ▶ Fee-for-service or fixed price structures available to match best fit for each project
- ▶ World-recognized IHMS™ standards ease distribution of models to customer locations and collaborators
- ▶ Agile project management and flexible planning to accommodate changes in priorities or budget

CONCIERGE

- ▶ PhD Scientific Program Manager leads the design process to meet customer's specifications
- ▶ Dedicated Project Manager assigned to every project to drive execution
- ▶ Custom communication and reporting plans for every program
- ▶ First of its kind eTACONIC® web portal for 24/7 access to project status, data, and inventory



Access to the design team throughout the lifetime in management



Single partner for both model generation and colony management



CONCIERGE

- ▶ PhD Scientific Program Manager leads the design process to meet customer's specifications
- ▶ Dedicated PhD Project Manager assigned to every project to drive execution
- ▶ CRISPR licensing allows customers freedom to operate with generated models

Taconic's Complete Solution

Taconic's end-to-end solution will help customers successfully navigate through every stage in the lifecycle of their genetically engineered model from design to generation, to scaled production, and reliable distribution of study cohorts to support any research program.

THE COMPLETE SOLUTION

MODELS TO DRIVE DRUG DISCOVERY

Taconic Biosciences is uniquely positioned to enable drug discovery through animal models by being the only company that partners with customers to provide expertise, quality, and availability, along with downstream services:

- ▶ Expertise at every step
- ▶ Highest quality standards in the industry
- ▶ Availability and access to drive global research

MODEL GENERATION SOLUTIONS

Taconic's Model Generation Solutions empower our customers with a unique combination of capabilities, specifically tailored to each individual discovery program:

- ▶ Most experienced model generation and breeding company
- ▶ Most comprehensive toolkit
- ▶ Exclusive programs
- ▶ Concierge approach to partnering with customers

COLONY MANAGEMENT SOLUTIONS

Taconic's fully-integrated colony management solutions bring innovative models from design to study-ready cohorts with unprecedented speed and transparency:

- ▶ Most experienced model generation and colony management company
- ▶ The complete toolkit
- ▶ Colony management solution process
- ▶ Partnering with our customers
- ▶ Expanded applications and opportunities

YOUR PARTNER

WHAT WE DO

Taconic Biosciences is a fully-licensed, global leader in genetically engineered rodent models and services. Founded in 1952, Taconic provides the best animal solutions so that customers can acquire, custom-generate, breed, precondition, test, and distribute valuable research models worldwide.

WHO WE ARE

Taconic has created a unique ecosystem of experts to provide our customers with the best animal model solutions. Whether it is choosing the right model for your study, designing a custom model, creating an efficient breeding plan, or providing expertise in critical support functions like veterinary science, genetics, and embryology, Taconic is ready to help you drive your research from idea to cure.

CONTACT US

To get started, contact one of our customer service team members. Contact us at info@taconic.com.

VISIT TACONIC.COM

There is so much more to learn. Visit taconic.com to see our full breadth of animal model solutions and valuable resources.

TACONIC'S ExpressMODEL®: EMBRYONIC STEM CELL (ESC)

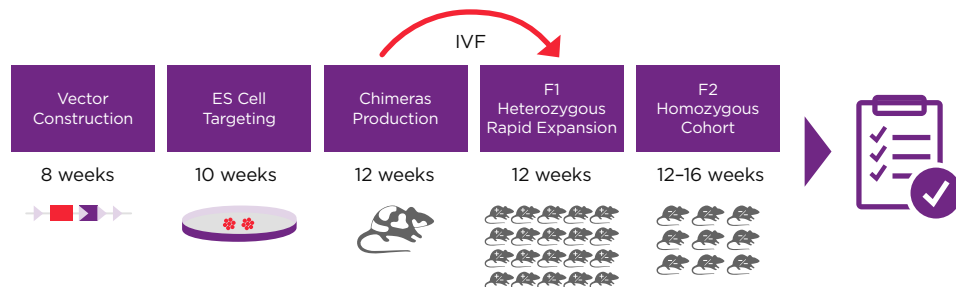
MODEL GENERATION TO COLONY MANAGEMENT WITH SPEED AND SCALE

ExpressMODEL®: ESC is a novel approach to accelerate the timeline of model generation to production of experimental cohorts. This cost-effective method rapidly expands the founder mice, thereby increasing the number of mice carrying the targeted allele in the first generation from 3-4 to at least 20-30. By providing a sizeable colony of heterozygous animals in the first generation, ExpressMODEL®: ESC allows researchers to skip at least one round of colony expansion, thereby saving 3-4 months on the overall project timeline.

66-72 WEEKS: Experimental Cohort (Traditional Approach)

54-60 WEEKS: Experimental Cohort (ExpressMODEL®: ESC)

42 WEEKS: 20 Heterozygous Mice (ExpressMODEL®: ESC)



BENEFITS OF ExpressMODEL®: ESC

- ▶ Skip one mouse generation to the generation of the first experimental cohort
- ▶ More predictable timelines not dependent on natural breeding of chimeras
- ▶ Possibility to scale up or down deliverables, depending on customer needs
- ▶ Generation of the colony at the desired health status

- ▶ Saves time
- ▶ Complies with 3 Rs
- ▶ Saves money

Get in touch for more information about our products and services.

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